

COMMUNICATION

The European Patent Office herewith transmits the partial European search report under Rule 46(1) EPC relating to the above-mentioned European patent application.

Copies of the documents cited in the search report are enclosed.

The applicant's attention is drawn to the following:

The search Division informs the applicant that if the European search report is also to cover inventions other than the invention first mentioned in the claims, a further search fee must be paid for each of these inventions, within ONE MONTH after notification of this communication.

If the application has been filed up to 30 June 1999, the search fee in force before 01 July 1999 (EUR 869,--) or the equivalent applicable on the date of payment is payable. This applies also to the search fees requested under Rule 46(1) EPC: See also OJ EPO 06/1999, 405.

The abstract was modified by the Search Division and the definitive text is attached to the present communication.
Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.



Note to users of the automatic debiting procedure:

Unless the EPO receives prior instructions to the contrary, the search fee(s) will be debited on the last day of the period for payment. For further details see the Arrangements for the automatic debiting procedure, Supplement to OJ EPO 02/1999.

REGISTERED LETTER

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PARTIAL EUROPEAN SEARCH REPORT under Rule 46, paragraph 1 of the European Patent EP 01 30 9779 Convention

Category	Citation of document with in-		Relevant	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
(WO 96 36707 A (MULLE; BROMURO CARLA (IT); ROB) 21 November 199 * page 13, line 30 -	R HANS MICHAEL ; UNIV ROMA (IT); VALLE 96 (1996-11-21)	to claim	C1201/70 C12N15/40 C12Q1/68
(JIANG X ET AL: "NOF CLONING AND CHARACTE SCIENCE (WASHINGTON VOl. 250, no. 4987, XP001153539 ISSN: 0036-8075	ERIZATION"	1	
Y	* the whole document	*	10	
X	VINJE J ET AL: "Ger across regions of the frames of "Norwalk-" ARCHIVES OF VIROLOG" vol. 145, no. 2, 200 XP002247148 ISSN: 0304-8608	ne three open reading like viruses"." Y,	5,6	
Y	* page 224, line 2, * page 228; table 2	3 * *	7-10	TECHNICAL FIELDS SEARCHED (Int.CI.7)
	page 220, subject	-/		C12Q
The Sea	OF UNITY OF INVENT	ION European patent application does not comply a to severalinventions or groups of inventions	with s.	
The pres	sheet B	been drawn up for those parts of the Europe	an	
parent ap	pplication which relate to the invention	lirst mentioned in the claims. Date of completion of the search		Examiner
	MUNICH	8 August 2003	Hel	lliot, B
	CATEGORY OF CITED DOCUMENTS	T; lheory or principl E: earlier patent do sher the filing da	e underlying the cument, but pub	Invention

- 1. Oct: 2003 17:09



PARTIAL EUROPEAN SEARCH REPORT

Application Number EP 01 30 9779

	CLASSIFICATION OF THE APPLICATION (Int.CI.7)		
ategory	Cliation of document with Indication, where appropriate, of relevant passages	Relevant to claim	
Y	KIEVITS T ET AL: "NASBA TM ISOTHERMAL ENZYMATIC IN VITRO NUCLEIC ACID AMPLIFICATION OPTIMIZED FOR THE DIAGNOSIS OF HIV-1 INFECTION" JOURNAL OF VIROLOGICAL METHODS, AMSTERDAM, NL, vol. 35, no. 3, 1 December 1991 (1991-12-01), pages 273-286, XP000576430 ISSN: 0166-0934 * page 273, line 14-16 *	7	
Y	ISHIGURO ET AL: "Flourescence detection of specific sequence of nucleic acids by oxazole yellow-lnked oligonucleotides. Homogenous quantitative monitoring of in vitro transcription" NUCLEIC ACIDS RESEARCH, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 24, no. 24, 1996, pages 4992-4997, XP002093536 ISSN: 0305-1048 * the whole document *	8,9	TECHNICAL FIELDS SEARCHED (Int.CI.7)

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LACK OF UNITY OF INVENTION SHEET B

Application Number

EP 01 30 9779

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1 (completely), 2-6 (partially), 7-10 (completely)

A cDNA as shown in SEQ. ID. No.1, or a fragment or a derivative thereof having a size sufficient to bind to Genogroup II (GII) type Small Round Structured Virus (SRSV). An oligonucleotide for detection of GII type SRSV, which oligonucleotide is capable of binding to said GII type SRSV at specific site, and comprises at least 10 contiguous bases of the sequences listed as SEQ. ID. Nos.2.

A GII type SRSV RNA amplification process in which a specific sequence of said GII type SRSV RNA present in a sample is used as a template for synthesis of a cDNA employing an RNA-dependent DNA polymerase, the RNA of the formed RNA/DNA hybrid is decomposed by Ribonuclease H to produce a single-stranded DNA, said single-stranded DNA is then used as a template for production of a double-stranded DNA having a promoter sequence capable of transcribing RNA comprising said specific sequence or the sequence complementary to said specific sequence employing a DNA-dependent DNA polymerase, said double-stranded DNA produces an RNA transcription product in the presence of an RNA polymerase, and said RNA transcription product is then used as a template for cDNA synthesis employing said RNA-dependent DNA polymerase,

wherein said RNA amplification process being characterized by employing a first primer comprising at least 10 contiguous bases of any of the sequences listed as SEQ. ID. No.20 to No.24 which has a sequence homologous to a portion of said GII type SRSV RNA to be amplified, and a second primer comprising at least 10 contiguous bases of any of the sequences listed as SEQ. ID. No.25 to No.31, which has a sequence complementary to a portion of said GII type SRSV RNA sequence to be amplified, where either or both the first and second primers include the RNA polymerase promoter sequence at their 5' end.

2. Claims: 2-6 (partially)

An oligonucleotide for detection of GII type SRSV, which oligonucleotide is capable of binding to said GII type SRSV at specific site, and comprises at least 10 contiguous bases of the sequences listed as SEQ. ID. Nos.3.

3. Claims: 2-6 (partially)

An oligonucleotide for detection of GII type SRSV, which oligonucleotide is capable of binding to said GII type SRSV at specific site, and comprises at least 10 contiguous bases of the sequences listed as SEQ. ID. Nos. 4.



LACK OF UNITY OF INVENTION SHEET B

Application Number

EP 01 30 9779

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

4. Claims: 2-6 (partially)

An oligonucleotide for detection of GII type SRSV, which oligonucleotide is capable of binding to said GII type SRSV at specific site, and comprises at least 10 contiguous bases of the sequences listed as SEQ. ID. Nos.5.

5. Claims: 2-6 (partially)

An oligonucleotide for detection of GII type SRSV, which oligonucleotide is capable of binding to said GII type SRSV at specific site, and comprises at least 10 contiguous bases of the sequences listed as SEQ. ID. Nos.6.

6. Claims: 2-6 (partially)

An oligonucleotide for detection of GII type SRSV, which oligonucleotide is capable of binding to said GII type SRSV at specific site, and comprises at least 10 contiguous bases of the sequences listed as SEQ. ID. Nos.7.

7. Claims: 2-6 (partially)

An oligonucleotide for detection of GII type SRSV, which oligonucleotide is capable of binding to said GII type SRSV at specific site, and comprises at least 10 contiguous bases of the sequences listed as SEQ. ID. Nos.8.

8. Claims: 2-6 (partially)

An oligonucleotide for detection of GII type SRSV, which oligonucleotide is capable of binding to said GII type SRSV at specific site, and comprises at least 10 contiguous bases of the sequences listed as SEQ. ID. Nos.9.

The common concept which could link inventions 1-8, as required by R. 30 EPC, can been seen in the provision of an oligonucleotide for detection of GII type SRSV. However, this concept is known from document D2 (Vinjé et al, 2000).

Document D2, which is considered as the closest prior art, investigates genomic relationships among Norwalk-like human caliciviruses (NLV), also known as small round-structured viruses, wherein specific primers for amplification of genogroup II of NLVs are designed (Tab. 2, p. 228).

Thus, the technical problem to be solved by the present application may be regarded as providing alternative oligonucleotides to those of D2. In view of the absence of any structural feature linking the different oligonucleotides, each of the group of oligonucleotides to which the application relates provides a separate solution to this problem. The description mentions that the claimed primers are suitable for



LACK OF UNITY OF INVENTION SHEET B

Application Number

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

isothermal amplification reactions (p. 5, 1. 10-20 of the present application). However, isothermal amplification methods are well known as well as primers for performing them (see Kievits T. et al, 1991). The selection of appropriate primers for performing an isothermal amplification reactions of a given target is thus a routine task for the skilled person.

Hence, the mere provision of a group of primers suitable for amplifying a specific target by isothermal amplification techniques cannot, as such, represent the special technical feature as defined in R. 30 EPC.

Thus, the aforelisted inventions are no longer linked by a special technical feature as required by Rule 30 EPC. The requirements for unity of invention referred to in Article 82 EPC are, thus, not fulfilled.

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 01 30 9779

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

	Patent docume cited in search re	nt port	Publication date		Patent fan member(nily s)	Publication date
WO	9636707	Α	21-11-1996	IT AU EP WO	RM950314 5777696 0826040 9636707	A A1	18-11-1996 29-11-1996 04-03-1998 21-11-1996
			Official Journal of the E				